

AMENDMENT TO THE CLAIMS

1-23. (canceled)

24. (currently amended) An apparatus for coupling at least a battery tester to a battery comprising:

a replaceable clamp comprising:

a first hand grip;

a first electrical plug positioned in the first hand grip and electrically coupled to a first set of Kelvin conductors, the first set of Kelvin conductors including a first wire and a second wire;

a cable including a second set of Kelvin conductors, the second set of Kelvin conductors including a first wire and a second wire; and

a second electrical plug electrically coupled to the first and second wires of the second set of Kelvin conductors, wherein the first electrical plug and the second electrical plug are ~~configured to removably electrically coupled~~ together in the first hand grip such that the first set of Kelvin conductors and the second set of Kelvin conductors are removably electrically coupled together;

a terminal coupled to the cable and having a terminal hole configured for alignment with an aperture in the first hand grip; and

a removable fastener which couples the terminal to the first hand grip through the terminal hole in the first hand grip.

25-26. (canceled)

27. (currently amended) The apparatus of claim ~~25~~24, wherein the terminal comprises a tin-plated ring.

28. (currently amended) The apparatus of claim ~~26~~24, wherein the removable fastener comprises a nut and bolt.

29. (previously presented) The apparatus of claim 24, wherein when the first electrical plug and the second electrical plug are electrically coupled together, the first set of Kelvin conductors and the second set of Kelvin conductors are capable of injecting a forcing function into a battery and providing a sensor lead for sensing a physical property of the battery.

30. (previously presented) The apparatus of claim 24, wherein the first and second set of Kelvin conductors comprise acid-resistant conductors.

31. (currently amended) An apparatus for coupling at least a battery tester to a battery comprising:

a replaceable clamp configured to contact a battery, the replaceable clamp comprising:

a first hand grip;

a first electrical plug positioned in the first hand grip and electrically coupled to a first set of Kelvin conductors, the first set of Kelvin conductors including a first wire and a second wire;

a cable including a second set of Kelvin conductors and a terminal, the second set of Kelvin conductors including a first wire and a second wire;

a second electrical plug electrically coupled to the first and second wires of the second set of Kelvin conductors, wherein the first electrical plug and the second electrical plug are ~~configured to~~ removably electrically couple together in the first hand grip such that the first set of Kelvin conductors and the second set of Kelvin conductors are removably electrically coupled together; and

a removable fastener for removably coupling the terminal to the first hand grip  
~~configured to removably couple the terminal to~~ the replaceable clamp.

32. (previously presented) The apparatus of claim 31, wherein the first hand grip comprises an aperture.

33. (previously presented) The apparatus of claim 32, wherein the terminal comprises a terminal hole formed therein, the terminal hole configured to align with the aperture in the first hand grip.

34. (previously presented) The apparatus of claim 33, wherein the fastener is configured to removably couple the terminal to the replaceable clamp through the terminal hole and the aperture in the first hand grip to couple the cable to the replaceable clamp.

35. (previously presented) The apparatus of claim 31, wherein the terminal comprises a tin-plated ring.

36. (previously presented) The apparatus of claim 31, wherein the removable fastener comprises a nut and bolt.

37. (currently amended) The apparatus of claim 31, wherein when the first electrical plug and the second electrical plug are electrically coupled together, the first set of Kelvin conductors and the second set of Kelvin conductors are capable of injecting a forcing function into a battery and providing a sensor lead for sensing a physical property of the battery.

38. (previously presented) The apparatus of claim 31, wherein the first and second set of Kelvin conductors comprise acid-resistant conductors.

39. (currently amended) A method of replacing a first battery clamp with a second battery clamp, the method comprising:

obtaining a first replaceable clamp including a first hand grip, a first electrical plug positioned in the first hand grip and a first set of Kelvin conductors having a first wire and a second wire, the first electrical plug electrically coupled to the first and second wires of the first set of Kelvin conductors;

obtaining a cable including a terminal and a second set of Kelvin conductors having a first wire and a second wire electrically coupled to a second electrical plug, the first electrical plug removably coupled to the second electrical plug in the first hand grip and the terminal removably coupled to the first hand grip;

disconnecting the first electrical plug from the second electrical plug; ~~and~~

disconnecting the terminal from the first hand grip;

obtaining a second replaceable clamp including a first hand grip, a third electrical plug positioned in the first hand grip and a third set of Kelvin conductors having a first wire and a second wire, the third electrical plug electrically coupled to the first and second wires of the third set of Kelvin conductors

connecting ~~a the third electrical plug in of a the second~~ replaceable clamp to the second electrical plug, ~~the third electrical plug positioned in a first hand grip of the second replaceable clamp and electrically coupled to a third set of Kelvin conductors in the second replaceable clamp; and~~

connecting the terminal to the first hand grip of the second replaceable clamp.

40. (currently amended) The method of claim 39, wherein the ~~cable is further coupled to a terminal having comprises~~ a terminal hole through which a removable fastener couples the cable ~~to the first replaceable clamp through an aperture in the first hand grip of the first replaceable clamp.~~

41. (previously presented) The method of claim 40, further comprising decoupling the terminal from the first hand grip by removing the removable fastener.

42. (previously presented) The method of claim 41, further comprising coupling the terminal through an aperture in the first hand grip of the second replaceable clamp.